

**Institute of Science Nagpur**  
Civil Lines R. T. Road Nagpur

No./ Phy/  
Office of the Director  
Institute of Science, Nagpur  
Date: 05/12/2025

To

M/S


**Subject:** Quotation for supply of articles/Chemicals for Physics Department

The materials \ Equipment's, Chemicals listed below are required for use in the Physics Department of the Institute. You are therefore requested to submit your quotation in respect of these items.

- 1) The quotation should be sent in sealed cover. The above dispatch No and the last date of submission mentioned bellow should be mentioned on the left hand top corner of cover.
- 2) The quotation should be for delivery for Institute of Science, Nagpur (inclusive of packing forwarding, insurance etc.)
- 3) For local dealers, the Octroi exemption certificate will be supplied if R.R\LR is in the name of Director Institute of Science Nagpur the demurrage if any will be borne by the firm.

The last date for the receipt of Quotation in the office will be 15/12/2025

The Quotation will be open on 17/12/2025.

  
Head,  
Department of Physics,  
Institute of Science, Nagpur  
**HEAD**  
**DEPARTMENT OF PHYSICS**  
Institute of Science, Nagpur

**List attached herewith**

## List of Articles

Sr No.	Details of Equipment/Instrument With all specifications	Quantity
1	IC tester	1
2	Soldering Gun with material	2
3	IC Bread Boards Trainer Kits 220V/50HZ	5
4	OPAMP Adder/subtractor EXP. KIT	2
5	OPAMP Integrator/Differentiator EXP. KIT	2
6	HALF ADDER & FULL ADDER USING GATES KIT	2
7	FULL SUBTRACTOR USING GATES KIT	2
8	NAND/NOR AS UNIVERSAL GATES KIT	2
9	VERIFICATION OG DE MORGAN'S THEOREM KIT	2
10	DIGITAL MULTIMETER	20
11	External HDD for Data Storage (2 TB)	1
12	Computer Mouse	4
13	Stepdown Transformer for Sonometer	02 Each
14	Kundts Tube	1
15	Helmoltz Resonator Jar	2
16	Characteristics of Microphone and loudspeaker kit	2
17	Study of Kirchhoffs Laws kit	1
18	Study of LCR Circuit kit	2
19	9 V Cell	12
20	Aluminium rod(Diameter = 3.75 mm , Length = 47 cm)	1
21	Brass Rod(Diameter = 3.75 mm , Length = 47 cm)	1
22	Steel Rod(Diameter = 3.75 mm , Length = 47 cm)	1
23	Lead Rod(Diameter = 3.75 mm , Length = 47 cm)	1
24	Heat Expansion apparatus(vertical pattern, Body Material MS, Weight 45kg)	1
25	Step down transformer (6-0-6)	10
26	Bread board	10
27	Thermal conductivity of a metal rod using Forbes method (Complete set up)	1
28	Thermal conductivity of a bad conductor by Lee's disc method (complete set up)	2
29	Joule's calorimeter.(complete set up)	4
30	Cathode ray oscilloscope(20MHz)	1
31	Calorimeter (simple)	5
32	Hall Probe(with Germanium (5mmx5mmx1mm)	2
33	China Dish (Porcelain) 6 inch	50
34	Alumina Crucible 25ml	10
35	Mortar Pestle (Agate) 10 inch	1
36	Beakers 250 ml(Borocil)	5
37	Beakers 100 ml(Borocil)	5
38	Beakers 50 ml(Borocil)	10
39	Diepunch(Stainless Steel)09mm/12mm	1
40	Dies(Stainless Steel)09mm/12mm	1
41	Oilfree lab vacuum pump	1
42	desicators(200mm/250mm)borocyl	2

### List of chemicals:

S.No.	CHEMICAL NAME	QUANTITY
1	Aluminium Nitrate Nonhydrate	500 g
2	Lanthanum nitrate hexahydrate	100 g
3	Calcium Nitrate tetrahydrate	500 g
4	Barium Nitrate	500 g
5	Magnesium Nitrate hexahydrate	500g
6	Strontium Nitrate	500g
7	Lithium Nitrate	100g
8	Nitric Acid	2.5lt
9	Hydrochloric Acid	2.5lt
10	Ammonium dihydrogen orthophosphate	500g
11	Yttrium (III) oxide	10g
12	Acetone	2.5lt
16	Hydrobromic acid	1 lit
17	Lead Iodide	100 g
18	Lead Bromide	100 g
19	Lead Chloride	100 g
20	Cerium nitrate	100 g
21	Gadolinium nitrate	100 g
22	Samarium nitrate	100 g
23	Neodimium nitrate	100 g